

SOLICITATION/CONTRACT/ORDER FOR COMMERCIAL ITEMS

OFFEROR TO COMPLETE BLOCKS 12, 17, 23, 24, & 30

1. REQUISITION NUMBER 57-2142-02				PAGE 1 OF 9	
2. CONTRACT NO.		3. AWARD/EFFECTIVE DATE		4. ORDER NUMBER	
5. SOLICITATION NUMBER N00173-02-R-MS06		6. SOLICITATION ISSUE DATE 14 JUN 02		7. FOR SOLICITATION INFORMATION CALL:	
a. NAME Mary M. Sandy		b. TELEPHONE NUMBER (No collect calls) 202-767-3710		8. OFFER DUE DATE/LOCAL TIME BLK 20	
9. ISSUED BY CONTRACTING OFFICER NAVAL RESEARCH LABORATORY ATTN: CODE 3220 WASHINGTON DC 20375-5326		10. THIS ACQUISITION IS <input checked="" type="checkbox"/> UNRESTRICTED <input type="checkbox"/> SET ASIDE: % FOR <input type="checkbox"/> SMALL BUSINESS <input type="checkbox"/> SMALL DISAV. BUSINESS <input type="checkbox"/> 8(A) SIC: 541710 SIZE STANDARD: 500employee		11. DELIVERY FOR FOB DESTINATION UNLESS BLOCK IS MARKED <input checked="" type="checkbox"/> SEE SCHEDULE <input type="checkbox"/> 13a. THIS CONTRACT IS A RATED ORDER UNDER DPAS (15 CFR 700) 13b. RATING DO-C9 14. METHOD OF SOLICITATION <input type="checkbox"/> RFQ <input type="checkbox"/> IFB <input checked="" type="checkbox"/> RFP	
15. DELIVER TO CODE		16. ADMINISTERED BY CODE			
17a. CONTRACTOR/OFFEROR CODE		FACILITY CODE		18a. PAYMENT WILL BE MADE BY CODE	
TELEPHONE NO.		17b. CHECK IF REMITTANCE IS DIFFERENT AND PUT SUCH ADDRESS IN OFFER <input type="checkbox"/>			
		18b. SUBMIT INVOICES TO ADDRESS SHOWN IN BLOCK 18a UNLESS BLOCK BELOW IS CHECKED <input type="checkbox"/> SEE ADDENDUM			
19. ITEM NO.	20. SCHEDULE OF SUPPLIES/SERVICES			21. QUANTITY	22. UNIT
	See Continuation Sheets				
	OFFER DUE DATE: 08 JUL 02 LOCAL TIME: 4:00 PM EST (Attach Additional Sheets as Necessary)				
25. ACCOUNTING AND APPROPRIATION DATA				26. TOTAL AWARD AMOUNT (For Govt. Use Only)	
To be completed at time of award					
27a. SOLICITATION INCORPORATES BY REFERENCE FAR 52.212-1, FAR 52.212-4, FAR 52.212-3 AND 52.212-5 ARE ATTACHED. ADDENDA				<input checked="" type="checkbox"/> ARE <input type="checkbox"/> ARE NOT ATTACHED	
27b. CONTRACT/PURCHASE ORDER INCORPORATES BY REFERENCE FAR 52.212-4, FAR 52.212-5 IS ATTACHED. ADDENDA				<input type="checkbox"/> ARE <input type="checkbox"/> ARE NOT ATTACHED	
28. CONTRACTOR IS REQUIRED TO SIGN THIS DOCUMENT AND RETURN _____ COPIES TO ISSUING OFFICE. CONTRACTOR AGREES TO FURNISH AND DELIVER ALL ITEMS SET FORTH OR OTHERWISE IDENTIFIED ABOVE AND ON ANY ADDITIONAL SHEETS SUBJECT TO THE TERMS AND CONDITIONS SPECIFIED HEREIN.			29. AWARD OF CONTRACT: REFERENCE _____ OFFER <input type="checkbox"/> DATED _____ YOUR OFFER ON SOLICITATION (BLOCK 5), INCLUDING ANY ADDITIONS OR CHANGES WHICH ARE SET FORTH		
30a. SIGNATURE OF OFFEROR/CONTRACTOR			31a. UNITED STATES OF AMERICA (SIGNATURE OF CONTRACTING OFFICER)		
30b. NAME AND TITLE OF SIGNER		30c. DATE SIGNED		31b. NAME OF CONTRACTING OFFICER	
				31c. DATE SIGNED	
32a. QUANTITY IN COLUMN 21 HAS BEEN <input type="checkbox"/> RECEIVED <input type="checkbox"/> INSPECTED <input type="checkbox"/> ACCEPTED, AND CONFORMS TO THE CONTRACT, EXCEPT AS NOTED			33. SHIP NUMBER PARTIAL FINAL		34. VOUCHER NUMBER
			36. PAYMENT <input type="checkbox"/> COMPLETE <input type="checkbox"/> PARTIAL <input type="checkbox"/> FINAL		35. AMOUNT VERIFIED CORRECT FOR
32b. SIGNATURE OF AUTHORIZED GOVT. REPRESENTATIVE		32c. DATE		37. CHECK NUMBER	
				38. S/R ACCOUNT NUMBER	
				39. S/R VOUCHER NUMBER	
				40. PAID BY	
41a. I CERTIFY THIS ACCOUNT IS CORRECT AND PROPER FOR PAYMENT			42a. RECEIVED BY (Print)		
41b. SIGNATURE AND TITLE OF CERTIFYING OFFICER		41c. DATE		42b. RECEIVED AT (Location)	
				42c. DATE REC'D (YY/MM/DD)	
				42b. TOTAL CONTAINERS	

1. CONTINUATION OF THE SF 1449 - SOLICITATION/CONTRACT/ORDER FOR COMMERCIAL ITEMS

A. Blocks 19 - 24 are completed as follows:

Item No.	Schedule of Supplies/Services	Quantity	Unit	Unit Price	Amount
0001	Long Range Optic Surveillance Systems in accordance with Attachment 1, Statement of Work, Sections 1.1 through 1.4.8.				
0001AA	Long Range Optic Surveillance System	1	EA	\$	\$
0001AB	Long Range Optic Surveillance System	1	EA	\$	\$
0002	Operation and Maintenance Training in accordance with Attachment 1, Statement of Work, Section 2.3.1.	1	LO	\$	\$
0003	Engineer/Instructor training during installation in accordance with Attachment 1, Statement of Work, Section 2.3.2.	1	LO	\$	\$
0004	Reports and Data in accordance with Exhibit A, Contract Data Requirements List, Attachment 1.	1	LO	*NSP	*NSP
Option 1 0005	Long Range Optic Surveillance System in accordance with Attachment 1, Statement of Work, Section 3.1.	1	EA	\$	\$
Option 2 0006	Long Range Optic Surveillance System in accordance with Attachment 1, Statement of Work, Section 3.1.	1	EA	\$	\$
Option 3 0007	Spare Parts Sets in accordance with Attachment 1, Statement of Work, Section 3.2.	4	EA	\$	\$
Option 4 0008	Spare Parts Sets in accordance with Attachment 1, Statement of Work, Section 3.2.	1	EA	\$	\$
Option 5 0009	Spare Parts Sets in accordance with Attachment 1, Statement of Work, Section 3.2.	1	EA	\$	\$
Option 6 0010	Spare Parts Sets in accordance with Attachment 1, Statement of Work, Section 3.2.	1	EA	\$	\$
* Not Separately Priced					

B. Block 25 is completed as shown on Attachment 2.

2. ADDENDA TO FAR 52.212-4 CONTRACT TERMS AND CONDITIONS--COMMERCIAL ITEMS (FEB 2002)

A. REQUIRED DELIVERY OR PERIOD OF PERFORMANCE

The required delivery is as follows:

ITEM NO.	QUANTITY	DELIVERY DATE
0001AA	1	Seven (7) months after contract award date.
0001AB	1	Eight (8) months after contract award date.
0002	1	Training must be conducted before delivery of the first system.
0003	1	Training to be conducted during installation of first system.
0005	1	Seven (7) months after date of exercise of option
0006	1	Seven (7) months after date of exercise of option
0007	1	Two (2) months after date of exercise of option
0008	1	Two (2) months after date of exercise of option
0009	1	Two (2) months after date of exercise of option
0010	1	Two (2) months after date of exercise of option

B. OPTION(S)

The Government may require delivery of the optional items by the contracting officer giving written notice any time prior to contract completion through three years from date of contract award.

C. AUTHORIZED GOVERNMENT REPRESENTATIVES

Authorized Government Representative (AGR) for Inspection and Acceptance- * ,Code *
,Telephone number * .

Security Matters- * , Code * , (202) 767- * , email *

Safety Matters- * , Code , (202) 767- * , email *

*(To be filled in at time of award)

D. ELECTRONIC AND INFORMATION TECHNOLOGY (EIT)

In accordance with Section 508 of the Rehabilitation Act of 1973 (29 U.S.C. 794d), all EIT supplies and services provided under this contract must comply with the applicable accessibility standards issued by the Architectural and Transportation Barriers Compliance Board at 36 CFR part 1194 (see FAR Subpart 39.2). Electronic and information technology (EIT) is defined at FAR 2.101.

E. REQUIREMENTS FOR ON-SITE CONTRACTORS

For those portions of the work under this contract performed at any NRL site, the contractor shall comply with the Requirements for On-Site Contractors dated 19 October 2001 which are hereby incorporated by reference. The full text is available at <http://heron.nrl.navy.mil/contracts/home.htm>.

3. FAR 52.212-5 CONTRACT TERMS AND CONDITIONS REQUIRED TO IMPLEMENT STATUTES OR EXECUTIVE ORDERS--COMMERCIAL ITEMS (DEC 2001)

(a) The Contractor shall comply with the following FAR clauses, which are incorporated in this contract by reference, to implement provisions of law or executive orders applicable to acquisitions of commercial items:

- (1) 52.222-3, Convict Labor (E.O.11755).
- (2) 52.233-3, Protest after Award (31 U.S.C 3553).

(b) The Contractor shall comply with the FAR clauses in this paragraph (b) that the Contracting Officer has indicated as being incorporated in this contract by reference to implement provisions of law or Executive orders applicable to acquisitions of commercial items or components:

(Contracting Officer must check as appropriate.)

- ☒ (1) 52.203-6, Restrictions on Subcontractor Sales to the Government, with Alternate I (41 U.S.C.253g and 10 U.S.C.2402).
- ☐ (2) 52.219-3, Notice of HUBZone Small Business Set-Aside (Jan 1999)
- ☒ (3) 52.219-4, Notice of Price Evaluation Preference for HUBZone Small Business Concerns (Jan 1999) *(if the offeror elects to waive the preference, it shall so indicate in its offer)*
- ☐ (4) (i) 52.219-5, Very Small Business Set-Aside (Pub. L. 103-403, section 304, Small Business Reauthorization and Amendments Act of 1994)
- ☐ (ii) Alternate I to 52.219-5
- ☐ (iii) Alternate II to 52.219-5

- ☒ (5) 52.219-8, Utilization of Small Business Concerns (15 U.S.C.637 (d)(2) and (3)).
- ☒ (6) 52.219-9, Small Business Subcontracting Plan (15 U.S.C.637 (d)(4)).
- ☐ (7) 52.219-14, Limitations on Subcontracting (15 U.S.C.637(a)(14)).
- ☐ (8) (i) 52.219-23, Notice of Price Evaluation Adjustment for Small Disadvantaged Business Concerns (Pub. L. 103-355, section 7102, and 10 U.S.C. 2323) (if the offeror elects to waive the adjustment, it shall so indicate in its offer)
- ☐ (ii) Alternate I of 52.219-23.
- ☐ (9) 52.219-25, Small Disadvantaged Business Participation Program - Disadvantaged Status and Reporting (Pub L. 103-355, section 7102, and 10 U.S.C. 2323).
- ☐ (10) 52.219-26, Small Disadvantaged Business Participation Program - Incentive Subcontracting (Pub. L. 103-355, section 7102, and 10 U.S.C. 2323).
- ☒ (11) 52.222-21, Prohibition of Segregated Facilities (Feb 1999)
- ☒ (12) 52.222-26, Equal Opportunity (E.O.11246).
- ☒ (13) 52.222-35, Equal Opportunity for Special Disabled Veterans, Veterans of the Vietnam Era, and Other Eligible Veterans (38 U.S.C.4212).
- ☒ (14) 52.222-36, Affirmative Action for Workers with Disabilities (29 U.S.C.793).
- ☒ (15) 52.222-37, Employment Reports on Special Disabled Veterans, Veterans of the Vietnam Era, and Other Eligible Veterans (38 U.S.C.4212).
- ☐ (16) 52.222-19, Child Labor – Cooperation with Authorities and Remedies (E.O. 13126).
- ☐ (17) (i) 52.223-9, Estimate of Percentage of Recovered Material Content for EPA-Designated Products (42 U.S.C. 6962(c)(3)(A)(ii)).
- ☐ (ii) Alternate I of 52.223-9 (42 U.S.C. 6962(i)(2)(C)).
- ☐ (18) 52.225-1, Buy American Act – Balance of Payments Program--Supplies (41 U.S.C.10a – 10d).
- ☐ (19) (i) 52.225-3, Buy American Act –North American Free Trade Agreement—Israeli Trade Act -- Balance of Payments Program (41 U.S.C.10a –10d, 19 U.S.C.3301 note, 19 U.S.C. 2112 note).
- ☐ (ii) Alternate I to 52.225-3.
- ☐ (iii) Alternate II to 52.225-3.
- ☐ (20) 52.225-5, Trade Agreements (19 U.S.C. 2501, *et seq.*, 19 U.S.C. 3301 note).
- ☒ (21) 52.225-13, Restriction on Certain Foreign Purchases (E.O. 12722, 12724, 13059, 13067, 13121, and 13129).

- ☐ (22) 52.225-15, Sanctioned European Union Country End Products (E.O.12849).
- ☐ (23) 52.225-16, Sanctioned European Union Country Services (E.O.12849).
- ☒ (24) 52.232-33, Payment by Electronic Funds Transfer -- Central Contractor Registration (31 U.S.C. 3332).
- ☒ (25) 52.232-34, Payment by Electronic Funds Transfer -- Other than Central Contractor Registration (31 U.S.C. 3332).
- ☐ (26) 52.232-36, Payment by Third Party (31 U.S.C. 3332).
- ☐ (27) 52.239-1, Privacy or Security Safeguards (5 U.S.C.552a).
- ☐ (28) (i) 52.247-64, Preference for Privately Owned U.S.-Flag Commercial Vessels (46 U.S.C.1241).
- ☐ (ii) Alternate I of 52.247-64.

(c) The Contractor shall comply with the FAR clauses in this paragraph (c), applicable to commercial services, which the Contracting Officer has indicated as being incorporated in this contract by reference to implement provisions of law or executive orders applicable to acquisitions of commercial items or components:

(Contracting Officer check as appropriate.)

- ☐ (1) 52.222-41, Service Contract Act of 1965, As Amended (41 U.S.C.351, *et seq.*).
- ☐ (2) 52.222-42, Statement of Equivalent Rates for Federal Hires (29 U.S.C.206 and 41 U.S.C.351, *et seq.*).
- ☐ (3) 52.222-43, Fair Labor Standards Act and Service Contract Act -- Price Adjustment (Multiple Year and Option Contracts) (29 U.S.C.206 and 41 U.S.C.351, *et seq.*).
- ☐ (4) 52.222-44, Fair Labor Standards Act and Service Contract Act - Price Adjustment (29 U.S.C.206 and 41 U.S.C.351, *et seq.*).
- ☐ (5) 52.222-47, SCA Minimum Wages and Fringe Benefits Applicable to Successor Contract Pursuant to Predecessor Contractor Collective Bargaining Agreement (CBA) (41 U.S.C.351, *et seq.*).

(d) *Comptroller General Examination of Record.* The Contractor shall comply with the provisions of this paragraph (d) if this contract was awarded using other than sealed bid, is in excess of the simplified acquisition threshold, and does not contain the clause at 52.215-2, Audit and Records -- Negotiation.

(1) The Comptroller General of the United States, or an authorized representative of the Comptroller General, shall have access to and right to examine any of the Contractor's directly pertinent records involving transactions related to this contract.

(2) The Contractor shall make available at its offices at all reasonable times the records, materials, and other evidence for examination, audit, or reproduction, until 3 years after final payment under this contract or for any shorter period specified in FAR Subpart 4.7, Contractor Records Retention, of the other clauses of this contract. If this contract is completely or partially terminated, the records relating to the work terminated shall be made available for 3 years after any resulting final termination settlement. Records relating to appeals under the disputes clause or to litigation or the settlement of claims arising under or relating to this contract shall be made available until such appeals, litigation, or claims are finally resolved.

(3) As used in this clause, records include books, documents, accounting procedures and practices, and other data, regardless of type and regardless of form. This does not require the Contractor to create or maintain any record that the Contractor does not maintain in the ordinary course of business or pursuant to a provision of law.

(e) Notwithstanding the requirements of the clauses in paragraphs (a), (b), (c) or (d) of this clause, the Contractor is not required to include any FAR clause, other than those listed below (and as may be required by an addenda to this paragraph to establish the reasonableness of prices under Part 15), in a subcontract for commercial items or commercial components --

- (1) 52.222-26, Equal Opportunity (E.O.11246);
- (2) 52.222-35, Equal Opportunity for Special Disabled Veterans, Veterans of the Vietnam Era, and Other Eligible Veterans (38 U.S.C.4212);
- (3) 52.222-36, Affirmative Action for Workers with Disabilities (29 U.S.C.793);
- (4) 52.247-64, Preference for Privately-Owned U.S.- Flag Commercial Vessels (46 U.S.C.1241) (flow down not required for subcontracts awarded beginning May 1, 1996) and
- (5) 52.222-41, Service Contract Act of 1965, As Amended (41 U.S.C. 351, *et seq.*).

4. 252.212-7001 -- CONTRACT TERMS AND CONDITIONS REQUIRED TO IMPLEMENT STATUTES OR EXECUTIVE ORDERS APPLICABLE TO DEFENSE ACQUISITIONS OF COMMERCIAL ITEMS. (NOV 2001)

- (a) The Contractor agrees to comply with the following Federal Acquisition Regulation (FAR) clause which, if checked, is included in this contract by reference to implement a provision of law applicable to acquisitions of commercial items or components.

☐ 52.203-3 Gratuities (APR 1984) (10 U.S.C. 2207).

- (b) The Contractor agrees to comply with any clause that is checked on the following list of Defense FAR Supplement clauses which, if checked, is included in this contract by reference to implement provisions of law or Executive orders applicable to acquisitions of commercial items or components.

☒ 252.205-7000 Provision of Information to Cooperative Agreement Holders (DEC

1991) (10 U.S.C. 2416).

- ☐ 252.206-7000 Domestic Source Restriction (DEC 1991) (10 U.S.C. 2304).
- ☐ 252.219-7003 Small, Small Disadvantaged and Women-Owned Small Business Subcontracting Plan (DoD Contracts) (APR 1996) (15 U.S.C. 637).
- ☒ 252.219-7004 Small, Small Disadvantaged and Women-Owned Small Business Subcontracting Plan (Test Program) (JUN 1997) (15 U.S.C. 637 note).
- ☒ 252.225-7001 Buy American Act and Balance of Payments Program (MAR 1998) (41 U.S.C. 10a-10d, E.O. 10582).
- ☒ 252.225-7007 Buy American Act--Trade Agreements--Balance of Payments Program (SEP 2001) (41 U.S.C. 10a-10d, 19 U.S.C. 2501-2518, and 19 U.S.C. 3301 note).
- ☒ 252.225-7012 Preference for Certain Domestic Commodities (AUG 2000) (10 U.S.C. 2241 note).
- ☐ 252.225-7014 Preference for Domestic Specialty Metals (MAR 1998) (10 U.S.C. 2241 note).
- ☒ 252.225-7015 Preference for Domestic Hand or Measuring Tools (DEC 1991) (10 U.S.C. 2241 note).
- ☐ 252.225-7016 Restriction on Acquisition of Ball and Roller Bearings (DEC 2000)
☐ (Alternate I) (DEC 2000) (Section 8064 of Public Law 106-259).
- ☐ 252.225-7021 Trade Agreements (SEP 2001) (19 U.S.C. 2501-2518 and 19 U.S.C. 3301 note).
- ☐ 252.225-7027 Restriction on Contingent Fees for Foreign Military Sales (MAR 1998) (22 U.S.C. 2779).
- ☐ 252.225-7028 Exclusionary Policies and Practices of Foreign Governments (DEC 1991) (22 U.S.C. 2755).
- ☐ 252.225-7029 Preference for United States or Canadian Air Circuit Breakers (AUG 1998) (10 U.S.C. 2534(a)(3)).
- ☐ 252.225-7036 Buy American Act--North American Free Trade Agreement Implementation Act--Balance of Payments Program (MAR 1998)
☐ (Alternate I) (SEP 1999) (41 U.S.C. 10a-10d and 19 U.S.C. 3301 note).

- ☐ 252.227-7015 Technical Data--Commercial Items (NOV 1995) (10 U.S.C. 2320).
- ☒ 252.227-7037 Validation of Restrictive Markings on Technical Data (SEP 1999) (10 U.S.C. 2321).
- ☒ 252.243-7002 Requests for Equitable Adjustment (MAR 1998)(10 U.S.C. 2410).
- ☒ 252.247-7023 Transportation of Supplies by Sea (MAR 2000)
☐ (Alternate I) (MAR 2000)
☐ (Alternate II) (MAR 2000) (10 U.S.C. 2631).
- ☒ 252.247-7024 Notification of Transportation of Supplies by Sea (MAR 2000) (10 U.S.C. 2631).
- (c) In addition to the clauses listed in paragraph (e) of the Contract Terms and Conditions Required to Implement Statutes or Executive Orders--Commercial Items clause of this contract (FAR 52.212-5), the Contractor shall include the terms of the following clauses, if applicable, in subcontracts for commercial items or commercial components, awarded at any tier under this contract:
 252.225-7014 Preference for Domestic Specialty Metals, Alternate I (MAR 1998) (10 U.S.C. 2241 note).
 252.247-7023 Transportation of Supplies by Sea (MAR 2000) (10 U.S.C. 2631).
 252.247-7024 Notification of Transportation of Supplies by Sea (MAR 2000) (10 U.S.C. 2631).

FAR:

- 52.203-8 Cancellation, Rescission, and Recovery of Funds for Illegal or Improper Activity (JAN 1997)
- 52.203-10 Price or Fee Adjustment for Illegal or Improper Activity (JAN 1997)

DFARS:

- 252.204-7004 Required Central Contractor Registration (NOV 2001)

5. CONTRACT DOCUMENTS, EXHIBITS OR ATTACHMENTS:

1. Statement of Work – 5 Pages, with Exhibit A, Contract Data Requirements List, DD 1423, - 2 Pages
2. Accounting and Appropriation Data – 1 Page*
 (* To be included at time of award)

6. FAR 52.212-2 - EVALUATION - COMMERCIAL ITEMS (JAN 1999)

(a) The Government will award a contract resulting from this solicitation to the responsible offeror whose offer conforming to the solicitation will be most advantageous to the Government, price and other factors considered. The following factors shall be used to evaluate offers:

- (i) technical capability of the item offered to meet the Government requirement;
- (ii) past performance
- (iii) small disadvantaged business participation
- (iv) price.

Technical and past performance, when combined, are more important than small disadvantaged business participation and price.

(b) Options. The Government will evaluate offers for award purposes by adding the total price for all options to the total price for the basic requirement. The Government may determine that an offer is unacceptable if the option prices are significantly unbalanced. Evaluation of options shall not obligate the Government to exercise the option(s).

(c) A written notice of award or acceptance of an offer, mailed or otherwise furnished to the successful offeror within the time for acceptance specified in the offer, shall result in a binding contract without further action by either party. Before the offer's specified expiration time, the Government may accept an offer (or part of an offer), whether or not there are negotiations after its receipt, unless a written notice of withdrawal is received before award.

8. OFFEROR REPRESENTATIONS AND CERTIFICATIONS

Offeror must complete and submit with its proposal, FAR 52.212-3 (DEC 2001) *Offeror Representations and Certifications--Commercial Items* and DFARS 252.212-7000 *Offeror Representations and Certifications--Commercial Items* (NOV 1995), which are available electronically in full text at : <http://heron.nrl.navy.mil/contracts/rep&certs.htm>

Statement of Work

1. LONG RANGE SURVEILLANCE SYSTEM

The Contractor shall deliver, install, and demonstrate operational performance and compliance of two (2) Long Range Optic Surveillance Systems, per the below Salient Features. The system delivery and integration will be conducted at a location in the greater Washington DC area, which will be identified by NRL at least 60 days prior to delivery.

1.1 System Level:

The salient features, at the system level, for the Long-Range Optic Surveillance System must include:

- 1.1.1** A long focal length step zoom of 400 to 3100 millimeter (mm) lens with Charge Coupled Device CCD video enhanced camera.
- 1.1.2** Target detection, recognition and identification ranges that must include: identification of 0.5 m letters at 4 kilometer (km), identification of a standard North Atlantic Treaty Organization (NATO) target (2.3 m²) at 10 km, and/or recognition to the horizon.
- 1.1.3** Ability to operate in all weather environments for all outdoor equipment, i.e. sensor suite and positioner and cables.
- 1.1.4** Inclusion of a fix field-of-view (FOV) acquisition camera and lens for target acquisition.
- 1.1.5** Ability to provide target data in terms of position, bearing, velocity, time and can to optionally provide range accurate to ± 2.0 meter.
- 1.1.6** Ability to store up to 32,000 frames of imagery and provide CD-R/W drive for off-board data.
- 1.1.7** Seamless integration of all components to supply a turnkey surveillance system.
- 1.1.8** Mean-time-before-failure (MTBF) of 10,000 hours minimum at the system level. The positioner MTBF must be in excess of 100,000 hours.
- 1.1.9** Training and option for life-cycle logistics operation.

1.2 Positioner:

The positioner salient features necessary to achieve low jitter, high accuracy image collection must include the following:

- 1.2.1** Direct-drive, zero-backlash drive motors and dual speed resolvers for high accuracy and rugged performance.
- 1.2.2** Yoke-style, two-axis positioner with sensors on boresight axis for minimal boresight alignment error and adjustable boresight platforms for sensors.
- 1.2.3** High dynamic operation of $90^\circ/\text{sec}$ and $90^\circ/\text{sec}^2$ angular velocity and acceleration, respectively.
- 1.2.4** Readouts must be at least nineteen (19) bits resolution.
- 1.2.5** Rate loop bandwidth of 20 hertz (Hz) minimum.
- 1.2.6** Must have a payload-to-positioner weight capacity ratio of at least two-to-one (2:1), to allow for future added sensors or expansion.
- 1.2.7** Ability to utilize a light-weight transportable base to support either fixed or mobile applications, and be designed to allow for a two-man lift and transport.

1.3 Video Sensor:

The video sensors must be designed for low cost, rugged, surveillance application. The salient features must include:

- 1.3.1** High-resolution (768 x 494 pixels) video black and white camera with built-in electronic video enhancer to reduce impact of haze and dust in the atmosphere.
- 1.3.2** Near infrared (IR) response (to 0.9μ).
- 1.3.3** Long focal length zoom cassegrain lens (400 – 3,100 mm) with six discrete focal lengths.
- 1.3.4** High quality optics with enhanced silver coatings, baffling and motor driven neutral density filter.
- 1.3.5** Microprocessor controlled focus, zoom and iris control via RS-422 Serial I/O.
- 1.3.6** Environmentally controlled with pressurized housing and desiccant cartridges.
- 1.3.7** High performance wide field of view (WFOV) acquisition camera, also environmentally housed.

1.4 Control System:

The control system must be composed of digital and software processing, designed as an open architected system, utilizing RT Linux as an operating system. There must be two levels of control; a local Servo Control Unit and a Remote Operator's Workstation. The salient features must include:

- 1.4.1** A National Electrical Manufacturers Association (NEMA) housed servo control unit that contains all necessary servo amplifiers, power supplies and digital processing, that closes the rate and position loops, provides resolver excitation and conversion, provides both serial I/O and parallel interfaces, allows control of the sensor suite as well as the positioner, and allows analog and digital tuning of the servo system. The NEMA housing must accommodate both outdoor and sheltered operation of the positioner and sensors.
- 1.4.2** The Servo Control Unit SCU must provide data output to the Remote Operator's Workstation for position, bearing, velocity and timing signals and serves as a signal interface between sensors, positioners, Remote Operator's Workstation, joystick, maintenance data and optional video tracker.
- 1.4.3** The Remote Operator's Workstation must be a peripheral component interconnect (PCI) based chassis with video graphics array (VGA) display, keyboard and/or joystick interface, frame grabber, on-board storage and CD-R/W data interface.
- 1.4.4** The Remote Operator's Workstation must have a high speed Ethernet interface for communication with Host processors.
- 1.4.5** On-board storage must be sufficient to store 32,000 images in tagged image file format (TIFF) files.
- 1.4.6** Modes of operation must include Standby, Manual, Scan, Point and Dwell and optional Autotrack.
- 1.4.7** Two video monitors for target acquisition and imagery.
- 1.4.8** Equipment must be housed in transportation cases with removable front and back covers, to allow for rapid set-up and easy two-man transportation.

2. REVIEWS, DELIVERABLES AND SCHEDULE

2.1 Reviews and Progress Reports

2.1.1 Program Management

A program schedule and Work Breakdown Structure (WBS) must be provided within 60 days after contract award. Monthly progress reports must be provided to manage the program and provide status to the customer.

2.1.2 System Review

A System Review meeting must be held 60 days after contract award to review system configuration, interface control documents, performance compliance, program management status, and deliverable status and surface any action items. The review must be held at the contractor's facility.

2.2 Documentation

2.2.1 Operation and Maintenance Documentation

Documentation provided must include two Operation and Maintenance Manuals that cover installation, safety, operation, maintenance, drawings, parts lists and other relevant data. The manuals must be high quality commercial grade.

2.2.2 Interface Control Documents

Interface Control Documents (ICD) must be provided to describe all electrical, mechanical, and communication interfaces. They must include sizes, weights, mounting configuration and installation drawings. The ICD for the communications must cover all external control interfaces and include control format, timing and signal requirements necessary for proper control and operation.

2.2.3 Test Procedures and Reports

All test documentation consisting of test procedures confirming compliance to system specifications and test reports applicable to each system must be provided. A Certificate of Conformance must be issued with each system.

2.2.4 Recommended Spare Parts List and Documentation

A recommended spare parts list with associated drawings must be provided. The recommended spare parts should represent the minimum complement of spare items necessary to facilitate an in-field repair for only the most common failure items.

2.3 Training

2.3.1 An Operation and Maintenance Training course (one time) consisting of one week at the Contractor's facility must be provided prior to the first system delivery. The contractor shall train at a maximum four people. This course must cover installation, alignment, calibration, operation, maintenance and interface with other systems. The course must also include student training materials and student lessons with instructions, and all documentation including guidelines, drawings, Operation and Maintenance (O & M) Manuals, Interface Control Documents (ICD's) and associated logistic data, necessary for successful training.

2.3.2 The Contractor shall provide an engineer/instructor, during installation, for two (2) days at the Contractor's facility, or at the Customers site (within the greater Washington DC area) as determined by the Customer, for integration support and training in operation and interface with other system elements.

3. OPTIONS

The contractor shall provide the following, if exercised:

3.1 Two (2) additional long-range optic surveillance systems, each meeting the salient features stated above.

3.2 Four (4) Spare Part Sets, the list of parts recommended under statement of work, Section 2.2.4.

CONTRACT DATA REQUIREMENTS LIST

Form Approved
OMB No. 0704-0188

The public reporting burden for this collection of information is estimated to average 110 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports (0701-0188), 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302. Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number. Please DO NOT RETURN your form to the above address. Send completed form to the Government Issuing

A. CONTRACT LINE ITEM NO. 0004				B. EXHIBIT A		C. CATEGORY: TDP _____ TM- _____ OTHER _____			
D. SYSTEM / ITEM				E. CONTRACT / PR NO. N00173-02-R-MS06		F. CONTRACTOR			
1. DATA ITEM NO. A001		2. TITLE OF DATA ITEM Program Schedule and Work Breakdown Structure				3. SUBTITLE			
4. AUTHORITY (Data Acquisition Document No.)				5. CONTRACT REFERENCE Statement of Work 2.1.1		6. REQUIRING OFFICE CODE 5720			
7. DD 250 REQ NO	9. DIST STATEMENT REQUIRED	10. FREQUENCY 1TIME		12. DATE OF FIRST SUBMISSION 60DAC		14. DISTRIBUTION			
8. APP CODE N/A	N/A	11. AS OF DATE		13. DATE OF SUBSEQUENT SUBMISSION		a. ADDRESSEE		b. COPIES	
16. REMARKS						CODE 5720		Draft	Final
								Reg	Repro
								1	
15. TOTAL →								1	

1. DATA ITEM NO. A002		2. TITLE OF DATA ITEM Monthly Status Reports				3. SUBTITLE			
4. AUTHORITY (Data Acquisition Document No.)				5. CONTRACT REFERENCE Statement of Work 2.1.1		6. REQUIRING OFFICE CODE 5720			
7. DD 250 REQ NO	9. DIST STATEMENT REQUIRED	10. FREQUENCY MTHLY		12. DATE OF FIRST SUBMISSION 30DAC		14. DISTRIBUTION			
8. APP CODE N/A	N/A	11. AS OF DATE		13. DATE OF SUBSEQUENT SUBMISSION		a. ADDRESSEE		b. COPIES	
16. REMARKS						CODE 5720		Draft	Final
								Reg	Repro
								1	
15. TOTAL →								1	

1. DATA ITEM NO. A003		2. TITLE OF DATA ITEM Operation and Maintenance Documentation				3. SUBTITLE			
4. AUTHORITY (Data Acquisition Document No.)				5. CONTRACT REFERENCE Statement of Work 2.2.1		6. REQUIRING OFFICE CODE 5720			
7. DD 250 REQ NO	9. DIST STATEMENT REQUIRED	10. FREQUENCY 1TIME		12. DATE OF FIRST SUBMISSION 7 MONTHS		14. DISTRIBUTION			
8. APP CODE N/A	N/A	11. AS OF DATE		13. DATE OF SUBSEQUENT SUBMISSION		a. ADDRESSEE		b. COPIES	
16. REMARKS						CODE 5720		Draft	Final
								Reg	Repro
								2	
15. TOTAL →								2	

1. DATA ITEM NO. A004		2. TITLE OF DATA ITEM Interface Control Documents				3. SUBTITLE			
4. AUTHORITY (Data Acquisition Document No.)				5. CONTRACT REFERENCE Statement of Work 2.2.2		6. REQUIRING OFFICE CODE 5720			
7. DD 250 REQ NO	9. DIST STATEMENT REQUIRED	10. FREQUENCY 1TIME		12. DATE OF FIRST SUBMISSION 60DAC		14. DISTRIBUTION			
8. APP CODE N/A	N/A	11. AS OF DATE		13. DATE OF SUBSEQUENT SUBMISSION		a. ADDRESSEE		b. COPIES	
16. REMARKS						CODE 5720		Draft	Final
								Reg	Repro
								2	
15. TOTAL →								2	

G. PREPARED BY CODE 5720				H. DATE 5/27/02		I. APPROVED BY				J. DATE	
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17. PRICE GROUP
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A. CONTRACT LINE ITEM NO. 0004	B. EXHIBIT A	C. CATEGORY: TDP _____ TM- _____ OTHER _____
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D. SYSTEM / ITEM	E. CONTRACT / PR NO. N00173-02-R-MS06	F. CONTRACTOR
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1. DATA ITEM NO. A005	2. TITLE OF DATA ITEM Test Procedures and Reports	3. SUBTITLE
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4. AUTHORITY (Data Acquisition Document No.)	5. CONTRACT REFERENCE Statement of Work 2.2.3	6. REQUIRING OFFICE CODE 5720
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7. DD 250 REQ NO	9. DIST STATEMENT REQUIRED N/A	10. FREQUENCY 1TIME	12. DATE OF FIRST SUBMISSION 5 MONTHS	14. DISTRIBUTION	b. COPIES	
8. APP CODE N/A		11. AS OF DATE	13. DATE OF SUBSEQUENT SUBMISSION	a. ADDRESSEE	Draft	Final
					Reg	Repro

16. REMARKS	CODE 5720		1	
15. TOTAL → 1				

1. DATA ITEM NO. A006	2. TITLE OF DATA ITEM Recommended Spare Parts List and Documentation	3. SUBTITLE
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4. AUTHORITY (Data Acquisition Document No.)	5. CONTRACT REFERENCE Statement of Work 2.2.4	6. REQUIRING OFFICE CODE 5720
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7. DD 250 REQ NO	9. DIST STATEMENT REQUIRED N/A	10. FREQUENCY 1TIME	12. DATE OF FIRST SUBMISSION 7 MONTHS	14. DISTRIBUTION	b. COPIES	
8. APP CODE N/A		11. AS OF DATE	13. DATE OF SUBSEQUENT SUBMISSION	a. ADDRESSEE	Draft	Final
					Reg	Repro

16. REMARKS	CODE 5720		1	
15. TOTAL → 1				

1. DATA ITEM NO.	2. TITLE OF DATA ITEM	3. SUBTITLE
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4. AUTHORITY (Data Acquisition Document No.)	5. CONTRACT REFERENCE	6. REQUIRING OFFICE
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7. DD 250 REQ	9. DIST STATEMENT REQUIRED	10. FREQUENCY	12. DATE OF FIRST SUBMISSION	14. DISTRIBUTION	b. COPIES	
8. APP CODE		11. AS OF DATE	13. DATE OF SUBSEQUENT SUBMISSION	a. ADDRESSEE	Draft	Final
					Reg	Repro

16. REMARKS			0	
15. TOTAL → 0				

1. DATA ITEM NO.	2. TITLE OF DATA ITEM	3. SUBTITLE
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4. AUTHORITY (Data Acquisition Document No.)	5. CONTRACT REFERENCE	6. REQUIRING OFFICE
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7. DD 250 REQ	9. DIST STATEMENT REQUIRED	10. FREQUENCY	12. DATE OF FIRST SUBMISSION	14. DISTRIBUTION	b. COPIES	
8. APP CODE		11. AS OF DATE	13. DATE OF SUBSEQUENT SUBMISSION	a. ADDRESSEE	Draft	Final
					Reg	Repro

16. REMARKS			0	
15. TOTAL → 0				

G. PREPARED BY CODE 5720	H. DATE 5/27/02	I. APPROVED BY	J. DATE
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